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## LOGGING AND CREDITING OF PACER MK II SIMULATOR TIME

First, a distinction must be made between "logging" and "crediting" of simulator time. All simulator time may be entered in a pilot's log book. It may be "solo" (or PIC--pilot in command) time or dual instruction endorsed by an appropriately rated instructor (CFII or IGI--instrument ground instructor). It may be on a Mk II Basic Flight Unit (without rudder pedals, gear, and flaps), a Mk II Complete, a home built, or a Boeing 747 moving base simulator. Just as you enter all time spent as pilot of an aircraft, you may enter all time spent as pilot of a simulator. No substantiation of solo or PIC time is required; a CFII or IGI must endorse all "instruction given" or dual time. All time logged may be included in a pilot's "total time" summary.

The real confusion arises in defining what, if any, of this time logged is creditable, and toward what it is creditable. Creditable time may be defined in two categories: credit toward instrument currency (FAR 61:57 (e) Recent Flight Experience), and credit toward a certificate or rating. Credit toward a certificate or rating is further complicated because certificates and/or ratings may be applied for under the provisions of Part 61 or Part 141 (which deals with Approved Flying Schools), and pilots are confronted with differing "aeronautical experience" requirements under each.

Since most pilots are interested in using the simulator to learn instrument flying procedures, attain "aeronautical experience" and maintain instrument currency, Part 61 will apply. Under this Part, simulator time may be credited for the following:

Private Pilot Certificate: No simulator time is creditable toward the 40 hours, all of which must be in an aircraft. Instruction in control of an airplane by reference to flight instruments may be given on a simulator.

Commercial Pilot Certificate: Fifty (50) hours of instruction (from an authorized instructor) on a simulator may be credited toward the 250 hours of flight time required.

Instrument Rating: Twenty (20) of the forty (40) hours of required instrument time may be instrument instruction (from an authorized instructor) on a simulator. Ten (10) hours of simulator instruction are also creditable against the required fifteen (15) hours of instrument flight instruction; thus, an instrument applicant may have:

- 20 hours simulator instruction
- 5 hours airplane instruction hooded
- 15 hours airplane hooded (with safety pilot)

Instrument Currency: Three (3) of the six (6) hours, and all six (6) of the six approaches required under Part 61:57 (e) within the past six months. All of this time may be done solo on the Mk II and credited.

Airline Transport Pilot Certificate: Twenty-five (25) of the required seventy-five (75) hours of actual or simulated instrument time, solo or instructed on a simulator, may be credited.

Simulator credit under Part 141 is another matter entirely, and applies only to pilots enrolled in flight training courses in an approved school. Here, the school must receive specific approval to use the particular simulator in a particular course in a particular manner. Its use must be an included part of an approved curriculum. Furthermore, the simulator must be located in an enclosure to be credited at all, and must have a means for recording the flight path (a plotter), to be used for full credit. If it does not have a plotter, it may still be approved for credit of one half of the time which may be accomplished in a simulator or pilot ground trainer. Thus, a Mk II simulator in an enclosure (and without a plotter) may be approved for use for:

2.5 of the 35 hours for the Private Pilot Certificate  
20 of the 190 hours of flight time for the Commercial Certificate  
7.5 of the 35 hours of instrument instruction for the Instrument Rating

Summarizing, the Mk II may be used as follows:

	<u>Part 61</u>	<u>Part 141*</u>
Private	0	2.5 hrs. (I)
Commercial	50 hrs. (I)	20 hrs. (I)
ATP	25 hrs. (S)	-----
Instrument Rating	20 hrs. (I)	7.5 hrs. (I)
IFR Currency	3 hrs. (S) 6 approaches	N/A

\*In an approved curriculum and in an enclosure

(I) - Instructed

(S) - Solo